IN THE CLAIMS:

Please cancel Claims 7, 8 and 12 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 1 to 6 and 9 to 11 as follows.

1. (Currently Amended) A camera comprising:

a physical element, arranged in a photographing optical system, that can change a light transmission factor thereof ~~throughout said physical element~~;

photoelectric conversion means, having a plurality of pixels, for receiving an optical image transmitted through said physical element at a position of an imaging plane, and for converting the optical image into ~~an~~ electrical image signals for plural colors, respectively ~~signal~~;

memory means for storing correcting information for correcting an output level change of the electrical image signals of the respective plural colors from said photoelectric conversion means, ~~means~~ caused by a change in an optical characteristic of said physical element with respect to a change of the light transmission factor of ~~throughout~~ said physical element, the correcting information including at least two correcting information factors in accordance with the changed light transmission factors; ~~and~~

correction ~~control~~ means for ~~for (i)~~ correcting at least one of the electrical image signals for the respective plural colors ~~signal output from said photoelectric~~

~~conversion means~~ using the correcting information read out from said memory means in accordance with the current light transmission factor of ~~throughout~~ said physical element;

white-balance adjusting means for adjusting a white balance in the electrical image signals from the respective plural colors, in accordance with the electrical image signals for the respective plural colors corrected by said correction means; and

control means for ~~element, and (ii)~~ controlling drive of said physical element in accordance with an output from said white-balance adjusting means ~~according to the corrected electrical image signal~~.

2. (Currently Amended) A camera according to claim 1, wherein the correcting information includes a plurality of correcting information factors for the respective colors, in accordance with a change in light transmission factors for the respective plural colors with respect to the change of the light transmission factors of said physical element ~~said control means adjusts a stored correction amount of wavelength dependency characteristics of the light transmission factor~~.

3. (Currently Amended) A camera according to claim 2, ~~claim 1,~~ wherein said control means corrects at least one of the electrical image signals for the respective plural colors using at least one of the correcting factors for the respective plural colors ~~said change by auto white-balance control for an output signal from said photoelectric conversion means~~.

4. (Currently Amended) A camera according to claim 1, wherein said correcting control means corrects at least one of the electrical image signals for the respective plural colors by changing at least one of sensitivity and light accumulation time of said pixels of said photoelectric conversion means, in accordance with the correcting information ~~said change by changing a sensitivity of said photoelectric conversion means in accordance with a light wavelength~~.

5. (Currently Amended) A camera according to claim 1, ~~claim 4,~~ wherein said correcting control means corrects at least one of the electrical image signals for the respective plural colors using ~~said change by~~ a filter provided on ~~with one of said photographing optical system and~~ said photoelectric conversion means.

6. (Currently Amended) A camera according to claim 1, wherein said correcting ~~control~~ means corrects at least one of the electrical image signals for the respective plural colors by locating in said photographing optical system a further ~~said change by arranging another~~ physical element capable of controlling a light transmission factor thereof ~~in the photographing optical system~~.

Claims 7 and 8 (Cancelled)

(Currently Amended) A camera comprising:

a physical element capable of changing ~~that can change~~ a light transmission factor thereof ~~throughout said physical element~~;

photoelectric conversion means, having a plurality of pixels, for receiving an optical image transmitted through said physical element at a position of an imaging plane, and for converting the optical image into ~~an~~ electrical image signals for plural colors, respectively, said plurality of pixels being adjustable for ~~signal, and capable of adjusting~~ at least one of sensitivity and ~~of a~~ light accumulation time thereof ~~and a sensitivity~~;

memory means for storing correcting information for correcting an output level change of said photoelectric conversion means, ~~means~~ caused by a change in an optical characteristic of said physical element with respect to a change of the light transmission factor of ~~throughout~~ said physical element, the correcting information including at least two correcting information factors;

correcting means for correcting the electrical image signals for the respective plural colors ~~signal~~ output from said photoelectric conversion means, ~~means~~ using the correcting information read out from said memory means in accordance with the current light transmission factor of ~~throughout~~ said physical element;

white-balance adjusting means for adjusting a white balance in the electrical image signals for the respective plural colors, in accordance with the electrical image signals for the respective plural colors corrected by said correction means; and

exposure amount adjustment means for controlling an exposure amount by a combination of adjusting at least one of the light transmission factor and the light transmission amount of said physical element ~~according to the electrical image signal corrected by said correcting means~~, and adjusting at least one of the light accumulation time and the sensitivity of said photoelectric conversion means, in accordance with the output from said white-balance adjusting means.

(Currently Amended) A ~~video~~ camera according to claim ~~9~~, wherein said exposure amount adjustment means electrically adjusts at least one of the light transmission factor and the light transmission amount of said physical element.

(Original) A ~~video~~ camera according to claim ~~9~~, wherein said exposure amount adjustment means adjusts at least one of the light transmission factor and the light transmission amount of said physical element in accordance with incident light.

Claim 12 (Cancelled).